

L 01805-66 EWT(d)/FSS-2/EWT(1)/EEG(k)-2/FCC/EEC-4/EWA(h) TT/AST/GW

ACCESSION NR: AP5020829

UR/0020/65/163/004/0873/0876

AUTHOR: Bezrukikh, V. V.; Gringauz, K. I.; Musatov, L. S.; Rybchinskiy, R. Ye.; Khokhlov, M. Z.

TITLE: Study of solar plasma flow by the Zond-2 interplanetary station

SOURCE: AN SSSR. Doklady, v. 163, no. 4, 1965, 873-876

TOPIC TAGS: solar radiation, plasma measurement, plasma flow, ion trap, particle detector/Zond 2

ABSTRACT: An investigation of solar plasma flow was made to confirm the hypothesis that a correlation exists between the rate of solar plasma flow and the Kp index characterizing geomagnetic disturbances. Solar plasma flow was measured by Zond-2, equipped with modulation and integral particle traps. The latter were modified to measure electron and positive ion flux with energies in excess of 70 ev and 50 ev, respectively. The modulation trap, similar to the one used on Explorer-10, had a modulating grid supplied by two voltages: a d-c voltage assuming consecutively 8 values between 230 and 3200 v,

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and a rectangular a-c voltage of 450 v with a modulating frequency of 1000 cps. Electron emission from the collector was suppressed by a grid with a 70-v potential with respect to the body of the satellite. An alternating component of the collector current, proportional to the magnitude of the positive-ion flow, was recorded by a resonance amplifier adjusted to the modulation frequency. The instrument was capable of sensing positive ion flow within the range of 10^7 to $2.5 \times 10^9 \text{ cm}^{-2} \text{ sec}^{-1}$. Recording of positive-ion flow of $E > 70 \text{ ev}$ was aided by a d-c amplifier in the trap circuit. During the flight of Zond-2, the modulation trap was directed toward the Sun. When a deviation occurred, a correction was automatically made in the readings based on a study of the angular characteristics of the trap in the laboratory. On 7 Dec 1964, solar plasma flow was recorded at $1.5 \times 10^9 \text{ cm}^{-2} \text{ sec}^{-1}$, coinciding with the geomagnetic storm which occurred on the same date. This value was reached only during strong magnetic storms and tended to confirm the correlation between the K_p index and solar plasma flow. The use of particle traps capable

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of direct determination of positive-ion flow gave better results than
the electrostatic analyzer on Mariner-2. Orig. art. has: 2
figures. [TS]

ASSOCIATION: Radiotekhnicheskiy institut Akademii nauk SSSR (Radio
Engineering Institute, Academy of Sciences, SSSR) 55

SUBMITTED: 29Apr65

ENCL: 00

SUB CODE: AA, SV

NO REF SOV: 002

OTHER: 006

ATD PRESS: 4085

Card 3/3 GP

L 22189-66 EPF(n)-2/EWA(h)/EWT(1)/ETC(f)/EWG(m)/FCC IJP(c) AT/GW
ACC NR: AP6002857 SOURCE CODE: UR/0286/65/000/024/0006/0006

AUTHOR: Gringauz, K. I.; Bezrukikh, V. V.; Ozerov, V. D.; Rybchinskiy, R. Ye.

ORG: none

TITLE: Plasma layer near the Earth

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 2⁴, 1965, 6

TOPIC TAGS: charged particle, plasma sheath, plasma density, plasma charged particle, upper atmospheric radiation

ABSTRACT: This Author Certificate announces the establishment of the existence (at heights of approximately from 2000-20,000 kilometers above the surface of the earth) of a previously unknown region of the earth's plasma sheath. This sheath has an increased concentration of charged particles (in respect to the interplanetary gas) which decreases with height. The magnitude of the negative gradients of the charged particle concentrations in the upper part of this region consists of some hundreds of particles in 1 cm³/1000 km of height. The concentration near the upper boundary of the region does not exceed 10² particles/cm³. Announcement of

67

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ACC NR: AP6002857

the change in the formulation of discovery. On the basis of the decision of the Committee for the Affairs of Inventions and Discoveries at the Council of Ministers, SSSR, the new text is published. No. 27 (Application No. OT-2821 of 16 February 1963)]

SUB CODE: 04/ SUBM DATE: 16Feb63

Card 2/2 nst

L 1540-66 FSS-2/EWT(l)/EWT(m)/FS(v)-3/EPF(c)/FCC/EVA(h) RPL TP/MM/GS/GJ
ACCESSION NR: AT5023577 UR/0000/65/000/000/0151/0161

AUTHOR: Afonin, V. V.; Breus, T. K.; Gdalevich, G. L.; Gorozhankin, B. N.;
Rybchinskiy, R. Ye.; Gringauz, K. I.

TITLE: Kosmos-2 ionosphere experiments

SOURCE: Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva. Moscow,
1965. Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferentsii.
Moscow, Izd-vo Nauka, 1965, 151-167

TOPIC TAGS: artificial earth satellite, ionosphere, ionosphere composition, iono-
spheric plasma, ion temperature, electron temperature, ion trap, honeycomb trap,
metal photoemission, F region, Kosmos 2

ABSTRACT: The Kosmos-2 artificial earth satellite, launched on 6 April 1962 into
an orbit from 49°N to 49°S (perigee ~212 km and apogee ~1546 km), was intended for
the structural study of the ionosphere and the attendant characteristic processes
therein. In addition to a direct telemetering system, information storage equip-
ment was installed on board the satellite. The principal tasks of the satellite were:
1) to remeasure the ion concentration and the chemical composition of the ionospheric
region from 500 to 1000 km (first done in 1958 by the third Soviet Sputnik) during

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a period of decreased solar activity; 2) to investigate the ionospheric regions above 1000 km under nocturnal and twilight conditions; 3) to measure the positive ion temperature by means of a new method using honeycomb-type ion traps with a very narrow directivity pattern; 4) to sound both the ion and electron components of the ionospheric plasma in order to measure the electron temperature and concentration (from ~212 to 600 km) by means of cylindrical Langmuir probes; and 5) to use a system of plane ion-traps for determining the satellite attitude with respect to its velocity vector. A honeycomb-type ion trap is shown in Fig. 1 of Enclosure. It consists of three electrodes (collector, antiphotoelectron grid for suppressing photocurrent on collector surface, and an external honeycomb cap, connected to the satellite). The maximum current in such a trap is achieved when the velocity vector of the incident ion beam is normal to the collector. In addition to the above experiments, measurements of the variation in photoemission from metals (due to the short-wave solar radiation in the frequency region near the ionization maximum of the F-region) were made to determine the total ultraviolet absorption in the F-region. It is stated that the experimental results from the Kosmos-2 mission will be helpful in preparing new ionospheric studies. Orig. art. has: 1 table, 6 formulas, and 15 figures. [RK]

ASSOCIATION: none

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"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410005-6

L 1540-66

ACCESSION NR: AT5023577

SUBMITTED: 02Sep65

ENCL: 01

SUB CODE: ES, CV

NO REF SOV: 007

OTHER: 014

ATD PRESB: 4094

Card 3/13

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410005-6"

RYBCHINSKIY, R.YE.

4

GRINGAUZ, K.I., BEZRUKIKH, V.V., MUSATOV, L.S., RYBCHINSKIY, R.YE.,
SHERONOVA, S.M.

Measurement made in the Earth's Magnetosphere by means of Charged Particle
traps aboard the Mars 1 Probe.

Report to be submitted for the 4th International Space Science Symposium
(COSPAR) Warsaw, 2-12 June 63

GRINGAUZ, K.I.; BEZRUKIKH, V.V.; BALANDINA, S.M.; OZEROV, V.D.;
RYBCHINSKIY, R.Ye.

Direct observation of solar plasma streams at a distance about
1,900,000 km. from the earth on February 17, 1961, and
simultaneous observations of the geomagnetic field. Isk.sput.
Zem. no.15:98-101 '63. (MIRA 16:4)

(Solar radiation) (Plasma (Ionized gases))
(Magnetism, Terrestrial—Observations)

3. 9000
3. 2100

80082
S/020/60/131/06/20/071
B014/B007

AUTHORS: Gringauz, K. I., Bezrukikh, V. V., Ozerov, V. D., Rybchinskiy, R. Ye.

TITLE: The Investigation of the Interplanetary Ionized Gas of High-energy Electrons and the Corpuscular Emission of the Sun by Means of Three-Electrode Catchers for Charged Particles in the Second Soviet Cosmic Rocket

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 131, No. 6, pp. 1301 - 1304

TEXT: During the flight of the rocket the currents generated by the charged particles in the catchers were measured and recorded. For this purpose four three-electrode catchers were fitted, each of which consisted of a semispherical nickel net (radius 30 mm), under which a plane nickel collector was fitted. Between these parts a tungsten net was fitted. The potentials on the electrodes are given and the scheme of the catcher is shown in Fig. 1. The task to be performed by the tungsten net was to prevent the photoelectric effect caused by irradiation by the Sun. The electrons, which moved with sufficient energy to overcome the retarding field between the nets, generated a negative collector current. For the purpose of selecting the characteristic of the apparatus, the following was assumed with

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The Investigation of the Interplanetary Ionized Gas of High-energy Electrons and the Corpuscular Emission of the Sun by Means of Three-electrode Catchers for Charged Particles in the Second Soviet Cosmic Rocket

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B014/B007

respect to the interplanetary medium: There exists a steady gas medium (plasma) of mainly ionized hydrogen with a concentration of $n_i = 5 \cdot 10^2 + 10^3 \text{ cm}^{-3}$ and an electron temperature of $10^4 \text{ }^\circ\text{K}$; there exist only sporadic corpuscular streams of protons and electrons with velocities of $(1 + 3) \cdot 10^8 \text{ cm.sec}^{-1}$ and concentrations of $n_i \approx 1 + 10 \text{ cm}^{-3}$, in some cases up to 10^3 cm^{-3} . It was possible to record positive collector currents of from 10^{-10} a to $50 \cdot 10^{-10} \text{ a}$, and negative collector currents of from 10^{-10} a to $15 \cdot 10^{-10} \text{ a}$. Recordings are shown in Figs. 2, 3, and 4. The following conclusions are drawn herefrom: 1) At a distance from the Earth of up to four equatorial semidiameters there exists a plasma with a temperature of not more than several tens of thousands of degrees. Thus, the results obtained by means of the first and third cosmic rocket were confirmed. 2) Within a range of from 55,000 to 75,000 km from the Earth, an electron flux of the density of $10^8 \text{ cm}^{-2} \text{ sec}^{-1}$ was found to exist, with energies exceeding 200 ev. 3) From the positive collector currents recorded in all four catchers the authors conclude

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The Investigation of the Interplanetary Ionized Gas of High-energy Electrons and the Corpuscular Emission of the Sun by Means of Three-electrode Catchers for Charged Particles in the Second Soviet Cosmic Rocket

that there exists a flux of positive ions with more than 15 ev and a density of $2 \cdot 10^8 \text{ cm}^{-2} \cdot \text{sec}^{-1}$. In conclusion, the authors draw attention to the proton fluxes with energies higher than 25 ev, which were found to exist by the automatic interplanetary station in October 1959. There are 4 figures and 4 references, 2 of which are Soviet.

ASSOCIATION: Radiotekhnicheskiy institut Akademii nauk SSSR (Radiotechnical Institute of the Academy of Sciences, USSR)

PRESENTED: February 11, 1960, by A. L. Mints, Academician

SUBMITTED: February 5, 1960

Card 3/3

9,9100 (also 2605)

11.1530

25988
S/560/61/000/006/006/010
E032/E11⁴

AUTHORS: Gringauz, K.I., Bezrukikh, V.V., Ozerov, V.D., and Rybchinskiy, R.Ye.

TITLE: A study of the interplanetary ionized gas, energetic electrons and solar corpuscular emission using three-electrode charged-particle traps on the second Soviet cosmic rocket

PERIODICAL: Akademiya nauk SSSR. Iskusstvennyye sputniki Zemli. No. 6. Moscow, 1961. pp. 101-107

TEXT: This paper was first published in Doklady AN SSSR, Vol.131, p.1301 (1960). The first, second and third Soviet space rockets carried three-electrode charged-particle traps. The most valuable data were obtained with the second space rocket (12000 collector current measurements). The present paper is therefore largely concerned with the data obtained during the latter flight. The space rocket which was fired in the direction of the moon on September 12 1959 carried equipment designed to measure interplanetary ionized gas, electrons with energies in excess of 200 eV, and also the corpuscular solar radiation. Four three-electrode traps were set

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S/560/61/000/006/006/010

A study of the interplanetary ionized... E032/E114 X

up on the surface of the space probe and were located at the corners of a tetrahedron inscribed into a sphere. Each trap consisted of a hemispherical outer nickel grid (radius 30 mm) with a plane nickel collector inside the grid. A plane tungsten grid was placed between the collector and the outer grid. The arrangement is illustrated in Fig.1. The potentials of the electrodes relative to the body of the container were: collectors - (60-90) volts, inner grids (g1) - 200 volts, outer grids (g2) - 10, -5, 0 and + 15 volts respectively. The main function of the inner grid was to suppress the photo-electrons from the collectors which are ejected by ultraviolet solar radiation, and to suppress the secondary electron emission due to the bombardment of the collectors by electrons and protons. The various potentials were applied to the outer grids in order to be able to estimate the energy of positive particles and to differentiate between current produced by protons of the interplanetary stationary plasma (~ 1 eV) and current due to protons in corpuscular streams whose energies are higher by three orders of magnitude. Electrons belonging to the stationary plasma, and solar corpuscular streams with energies up to 25 eV do not give rise to a collector

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S/560/61/000/006/006/010
A study of the interplanetary ionized... E032/E114

current since they cannot overcome the retarding field due to the potential difference between the inner and the outer grids. On the other hand, electrons moving in the earth's magnetic trap (the so-called outer radiation belt) do have sufficient energy to overcome the field between the two grids and can give rise to a negative collector current. The collector current amplifiers were sufficient to transmit information about the magnitude of the positive collector currents in the range 10^{-10} - 50×10^{-10} amp and negative collector currents in the range 10^{-10} - 15×10^{-10} amp. During its translational motion the container also performed complicated and rapid rotational motion. The angular position of each trap was therefore subject to continuous variation giving rise to oscillations in the collector current. This is illustrated in Fig. 2, which gives a plot of the collector currents as a function of distance R (km) for the trap with $\phi_{g2} = -10$ volt. The maximum and also the minimum values correspond to roughly the same orientations. Thus, changes in the collector current which are mainly due to the surrounding medium can be described by curves passing through points corresponding to the successive maxima and minima in the collector current. In this way, the rotation of the Card 3/7

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S/560/61/000/006/006/010

E032/E114

A study of the interplanetary ionized...
container can, at least to some extent, be excluded. Consideration
of the experimental data has led to the following conclusions.
A plasma having a temperature not greater than some tens of
thousands of degrees was present at distances of up to 4 earth radii
from the earth's surface. The estimates of the concentration of the
plasma are given by K.I. Gringauz, V.G. Kurt, V.I. Moroz and
I.S. Shklovskiy in Ref.5 (page 108 of the present issue). In the
region between 55000 and 75000 km an electron flux of about
 $10^8 \text{ cm}^{-2}\text{sec}^{-1}$, which consisted of electrons having energies in
excess of about 200 eV, was recorded. The existence of such an
electron flux in this region is confirmed by results obtained with
the first space rocket in January 1959. Beginning at 9 hr 30 min
Moscow time, on September 13 1959 and right up to the impact on the
lunar surface, the probe passed through a positive ion stream
(probably protons). The energies of these particles were in excess
of 15 eV and the flux was about $2 \times 10^8 \text{ cm}^{-2}\text{sec}^{-1}$. The existence
at various times of a stream of protons with energies in excess of
25 eV was discovered with the aid of similar apparatus at various
distances from the earth during the flight of the Automatic
Planetary Station during October 1959. These protons apparently

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A study of the interplanetary ionized... E032/E114

belong to solar corpuscular emission. These results therefore constituted the first direct observation of corpuscular radiation outside the earth's magnetic field.

There are 4 figures and 5 references: 3 Soviet and 2 non-Soviet.
The English language reference reads as follows:
Ref. 3: L. Bierman. The Observatory, V.77, 187, 1957.

Card 5/7.

TSVETKOV, V.N., kand.tekhn.nauk, dotsent; RYBCHINSKIY, V.D., inzh.

Effect of the moisture of sole parts leather on the contact stress
in the mechanical joints of shoe soles. Nauch.trudy MTIIP no.18:
76-90 '60. (MIRA 15:2)

1. Kafedra tekhnologii izdeliy iz kozhi Moskovskogo tekhnologicheskogo
instituta legkoy promyshlennosti.
(Leather) (Strains and stresses)

TSVINTOV, V.V., kand.tekhn.nauk, dotsent; RYBOMILSKY, V.D., inzh.

Characteristics of the effect of moisture on leather shrinkage.
Izv.vys.ucheb.zav.;tekh.leg.prom. no.4:96-106 '61.

(MFA 14:10)

1. Moskovskiy tekhnologicheskiy institut legkoy preryshlemonosti.
(Leather—Testing)

RYBCHINSKIY, V.P., elektrik

Improvement of the MZ-2 electric bell. Energetik 13 no.11:29
(MIRA 18:11)
N '65.

RYBCHINSKIY, Yu.

It is impossible to conceal an atomic explosion. NTO 4 no.10:
44-46 O '62. (MIRA 15:9)
(Atomic bomb--Testing)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410005-6

RYBCHINSKIY, Yu.

A surgeon confers with an engineer. NTO 4 no.8:60-61 Ag '62.
(MIRA 15:8)

(Orthopedic apparatus)

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CIA-RDP86-00513R001446410005-6"

RYBCHINSKIY, Yu.

Master learns to count. Tekh. mol. no.5:6-7 My '62. (MIRA 15:6)
(Technological innovations)
(Efficiency, Industrial)

RYBCZYNSKI, A.

Etiology of malignant neoplasms. Polski tygod. lek. 7 no.22:720
2 June 1952. (CIML 23:2)

1. Of the First Surgical Department (Head--Prof. Kazimierz Nowakowski,
M.D.) of Poznan Municipal Hospital.

RYBCZYNSKI, Anatol; ZBIGNIEW, Leja

Changes of serum proteins following experimental excision of liver tissue.
Polski przegl. chir. 30 no.5:558-562 May 58.

(BLOOD PROTEINS,

eff. of exper. hepatectomy (Pol))

(LIVER, effect of excis.

on blood proteins in dogs (Pol))

RYECZYNSKI, J.

RYECZYNSKI, J. Some theoretical problems in the construction of plows.
p. 34.

Vol. 29, no. 9, Sept. 1955
LAS POLSKI
AGRICULTURE
Poland

So: East European Accession, Vol. 6, No. 5, May 1957

SKORCZYNSKI, Marian; GLOWINSKI, Mieczyslaw; RYBCZYNKI, Jerzy; LIMANSKI,
Marian

Behavior of transaminases (SGOT and SGPT) in hemolytic disease
of the new born. Pol tyg. lek. 18 no.46:1709-1713 11 N '63.

1. Z Wojewodzkiej Przychodni Immunologii Ciazy i Noworodka w
Katowicach; (kierownik: dr. med. M.Skorczynski) i z Kliniki
Położnictwa i Chorob Kobiecych Sz. AM (kierownik: prof. dr.
M. Glowinski).

SKORCZYNSKI, Marian; RYBCZYNSKI, Jerzy

Our method of exchange transfusion in hemolytic disease of
the newborn. Ginek. pol. 34 no.4:481-485 '63.

1. z Osrodka Immunopatologii ciazy i noworodka w Katowicach
Kierowniki: dr med. M. Skorczynski.
(ERYTHROBLASTOSIS, FETAL)
(EXCHANGE TRANSFUSION)

RYBENKOV, D.A.

Attachment for cutting coarse-pitch thread. Stan.i instr. 34 no.2:
(MIRA 16:5)
40-41 F '63. (Lathes—Attachments)

RYBERT, V.F., gornyy inzh.; PUSTOVALOV, A.I., gornyy inzh.; PONOMAREV, L.F.,
gornyy inzh.; YEROFEYEV, I.Ye., gornyy inzh.; YERMOLAYEV, A.G., gor-
nyy inzh.

Making use of industrial potentialities in a mine of communist
labor. Gor.zhur. no.1:6-9 Ja '64. (MIRA 17:3)

1. Rudnik imeni XXII s"yezda Kommunisticheskoy partii Sovetskogo
Soyuza Zyryanovskogo kombinata.

RYBERT, V.F.; MAKAREVICH, V.F.

Zyryanovsk open-pit mine. Trudy Alt. GMNII AN Kazakh. SSR 13:
(MIRA 16:3)
5-12 '62. (Zyryanovsk District--Strip mining)

RYBERT, V.F.

Roller boring in mines of the Zyryanovsk Combine. Trudy Alt. GMNII
(MIRA 14:6)
AN Kazakh SSR 9:167 '60.

1. Zyryanovskiy polimetallicheskiy kombinat.
(East Kazakhstan Province—Rock drills)

Acoustic properties of asphalt concretes. J. A. Rybicka-Strautel. *Materialy i Struktury* 1937, No. 12, 42-8; *Chem. Zentr.* 1939, I, 1230.—Although asphalt concrete containing large pores is a poorer conductor of sound than the fine-pored product, nevertheless the former is not suitable for use in practice because the mechanical strength decreases very rapidly with increase in the size of the pores. Tests showed the resistance to pressure shown by the large-pored concrete was 15-25 kg./sq. cm., while that of the fine-pored material was 40-48 kg./sq. cm. M. G. Moore

ASCELSA METALLURGICAL LITERATURE CLASSIFICATION

IRON & STEEL

100382 10

SINTERED METALS

100383 10

STRUCTURAL IRON

100384 10

MACHINING IRON

100385 10

IRON ALLOYS

100386 10

IRON & STEEL

100387 10

IRON & STEEL

100388 10

IRON & STEEL

100389 10

IRON & STEEL

100390 10

IRON & STEEL

100391 10

7451
POLAND/General and Special Zoology- Insects.

P-6

Abs Jour : Ref Zhur - Biol., No 5, 1958, 21007

Author : Rybi

Inst :

Title : The Significance of Green Plants in the Life of Insects.

Orig Pub : Ann. Univ. M. Sklodovska, 1954 (1956), C9, No 1-9, 61-138

Abstract : The relation between the amount of food consumed by the insect, the daily increase in the mass of its body and the anatomical structure of the consumed leaves was shown in the larvae of *Mimas tiliae* (Sphingidae) and *Phalera bucephala* (Notodontidae) fed on *Alnus incana*, *Betula verrucosa*, *Tilia platyphyllos*, *Ulmus campestris*, *Acer platanoides*, *Al. glutinosa*, *Carpinus betulus*, *Corylus avellana*, *Fagus sylvatica*, *Populus nigra*, *Quercus pedunculata* and *Salix carena*. The size of the palisade tissue cells and the number of the layers of these cells in the leaves were the decisive factors in determining the amount of consumed food.

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tances both of damaged and undamaged cells were utilized. K-ions penetrating the cells through the semi-permeable coating destroyed in the digestive juices changed the pH of such cells resulting in proteinosis. Autolysis took place, and the resulting hydrolyzates of the various cell proteins may be absorbed by the epithelium of the insect's

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Card 2/2

MINTAHLI, Z.

A new method packaging reams of paper.

P. 42. (PREGLAD PAPIERNICZY) (Lodz, Poland) Vol. 13, no. 2, Feb. 1957

SC: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410005-6

RYBIANSKI, M.

Patterns and their role in cutting textures, p. 204. (PRZEGLAD SKORZANY, Lodz,
Vol. 8, no. 8, Aug. 1953.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4, Jan. 1955,
Uncl.

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CIA-RDP86-00513R001446410005-6"

RYBIANSKI, Z.

RYBIANSKI, Z. The problem of one century. p. 287.

Vol. 12, no. 10, Oct. 1956

PRZEGLAD PAPIERNICZY

PHILOSOPHY & RELIGION

Warszawa, Poland

SO: East European Accession, Vol. 6, No. 3, March 1957

RYBICKA, H.
BIRECKA, H.
SCI BOR-MARCHOCKA, A.

The alkaloids of Lupinus albus and the method of their quantitative determination.

p. 25.

ACTA BIOCHIMICA POLONICA. (Polska Akademia Nauk. Komitet Biochimiczny)

Warszawa. Vol. 6, no. 1, 1959

Poland/

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, no. 6, June 1959

Uncl.

RYBITSKA, Barbara [Rybicka, Barbara]; KRAVTSOVA, I. [translator]

How to reduce fatigue during work. Okhr.truda i sots.strakh.
6 no.2:39-40 F '63. (MIRA 16:2)
(Work) (Fatigue)

BIRECKA, H.; RYBICKA, H.; SCIBOR-MARCHOCKA, A.

Lupinus albus alkaloids and a method of their quantitative determination. Acta biochim. polon 6 no.1:25-36 1959.

1. Zaklad Fizjologii Roslin S.G.G.W. w Warszawie Kierownik: prof.
dr H. Birecka.

(ALKALOIDS, determ.

Lupinus albus alkaloids (Pol))

RYBICKA, Hanna

Sparteine and luplaine decomposition by soil microorganisms.
Acta agrobot 16:23-39 '64.

1. Laboratory of Metabolism of the Institute of Plant Physiology
of the Polish Academy of Sciences, Warsaw. Submitted November 18,
1963.

RIBICZ T., WISŁA H., KRIMEL P.

Analiza wpływu penicyliny na wytwarzanie hemolizyn przez laseczki zgorzeli gazowej. Analysis of the effect of penicillin on hemotoxin production by Clostridium perfringens type A / Med. dosw. mikrob. 1:4 1949 p. 556-78.

1. Of the National Institute of Hygiene in Warsaw
GLW Vol. 20 No. 2 Feb 1951

11C

Influence of sulfonamides, *p*-aminobenzoic acid (PABA), procaine, and *p*-aminosalicylic acid (PAS) on the hemotoxin production by *Clostridium perfringens*. Henryk Meissel, Irena Rybicka, and Paula Mysiel (P.Z.H., Warsaw, Poland) *Med. Doswad. i Mikrobiol.* 1, 379-381 (1941) (English summary); cf. C.A. 45, 6004M. Sulfa compds. (I) at concn. 0.15 mg./ml. to 100 mg./ml. were tested on 5 strains of *C. perfringens* growing in a meat-infusion broth, with 1% peptone, 0.5% NaCl and 1% added glucose (pH 7.5). Sulfathiazole, "phthiazol," and marfanil were most active, but varied in effectiveness from strain to strain. I exerted a bacteriostatic action only; no flocculation occurred. Some do not affect the toxin production, some lower it. Contrary to penicillin they never increase toxin production. There was no direct relationship between the diminished toxin titer and the effect on cell growth. Dialysis of the peptone to remove sulfa antagonists did not affect the above results. PABA lowered the titer, it had a synergistic effect when added together with I, no competition was observed. Procaine and PAS acted in a similar way.
L. Z. Roberts

1. Ch. - the Nas. Inst. of Hygiene,
Wrocaw
CIMH Vol. 20, No. 2, Feb 51.

1957

RYBICKA, I.

Differential diagnosis of Clostridium perfringens based on certain biochemical group properties. Med.dosw.Mikrob. 2 no.2:240-241
1950. (CIML 20:6)

1. Summary of the report given at 10th Congress of the Polish Microbiological and Epidemiological Society held in Gdańsk, Sept. 1949. (Warsaw.)

MEISEL, H.; RYBICKA, I.; MEISEL, P.

Effect of sulfonamide preparations on Clostridium perfringens type A and on their production of hemotoxins. Med.dosw.Mikrob. 2 no.2: 241 1950. (CLML 20:6)

1. Summary of the report given at 10th Congress of the Polish Microbiological and Epidemiological Society held in Gdansk, Sept. 1949. (Warsaw.)

MEISEL, H.; RYBICKA, I.; MEISEL, P.

Effect of para-aminobenzoic acid and certain derivatives on Clostridium perfringens and on the hemotoxin in culture. Med.dosw.Mikrobiol. 2 no.2:242 1950. (CML 20:6)

1. Summary of the report given at 10th Congress of the Polish Microbiological and Epidemiological Society held in Gdansk, Sept. 1949. (Warsaw.)

RYBICKA I., MEISEL H., ALBRYCHT H.

Przeciwiała aglutynujące Cl. botulinum, Cl. putrificum i Cl. sporogenes w sierwicach zdrewnych ludzi i niektórych gatunków zwierząt. /Agglutination of Clostridium botulinum, Clostridium putrificum and Clostridium sporogenes by normal human serum and that of certain animals/ Med. dosw. mikrob. 2:3-4 1950 p. 418-33.

1. Of the National Institute of Hygiene in Warsaw.
CML Vol. 20, No. 10 Oct 1951

KURJOWA, I.

PKLAD/Medicine - Antibiotics

April 51

"The Evaluation of Chloroquine Preparations of Different Origin" W. Kurylowicz,
R. Neisal, R. Neisal, E. Mikolajczyk, I. Niedzwiecka-Trzaskowska, I. Rybicka,
E. Kojeleckiawski, State Inst of Hygiene in Poznan, Inst of Gen and Exptl Pathol,
Inst of Med in Poznan.

"Medycyna Weterynaryjna, Mikrobiologia" Vol III, No 4, pp 399-406.

The following chloroquine preps have been examined: 2 of Polish origin, "Krakow" and "Warszawa," and one of foreign origin: "P - D" "Krakow" chloroquine has higher potency, purity and solv, is less toxic. 198T47

Rybicka, I.

MEISEL, H.; RYBICKA, I.; ALBRYCHT, H.

Origin of antibodies agglutinating Clostridia in healthy human
and animal serum. Med. dosw. mikrob., Warsz. 4 no. 1:77-94 Jan-
Mar 1952. (CIML 22:4)

1. Of the National Institute of Hygiene in Warsaw.

Rybicka, I.

MEISEL, H.; RYBICKA, I.; ZALESKA, H.

Botulin toxin type A. Med. dosw. mikrob., Warsz. 4 no. 2:165-
176 1952.
(CLML 22:4)

1. Of the National Institute of Hygiene in Warsaw.

MEISEL, H.; RYBICKA, I.; ZALESKA, H.

Studies on botulinus toxin A. Med. dosw. mikrob., Warsz. 4 no. 3:
331 1952.
(CLML 23:3)

1. Summary of work progress presented at 11th Congress of Polish
Microbiologists held in Krakow May 1951. 2. Warsaw.

MEISEL, H.; ALBRYCHT, H.; RYBICKA, I.

Studies on normal agglutinins against anaerobic Sporeza.
Med. dosw. mikrob., Warsz. 4 no. 3:346-347 1952. (CIML 23:3)

1. Summary of work progress presented at 11th Congress of Polish
Microbiologists held in Krakow May 1951. 2. Warsaw.

MEISEL, H.; RYBICKA, I.; ZALESKA, H.

Type A botulin toxin; detoxification of toxins and their antigenic properties. Med. dosw. mikrob. 4 no.4:519-529 1952. (CML 23:4)

1. Of the National Institute of Hygiene, Warsaw.

MEISEL, H.; RYBICKA, I.

Experimental studies on development of antitoxins in animals immunized
with botulin anatoxin type A. Med. dosw. mikrob. 5 no.1:123-130 1953.
(CIML 24:5)

1. Of the State Institute of Hygiene in Warsaw.

JANCZURA, Ewa; HYBICKA, Irena; ZALESKA, Helena

Production of diphtheria toxin on semixynthetic media with casein hydrolysate. Med.dosw.mikrob. 7 no.3:263-276 1955.

1. Z Państwowego Zakładu Higieny w Warszawie.

(DIPHTHERIA,

toxin, prod. on semisynthetic media with casein hydrolysate)

(CULTURE MEDIA

semisynthetic medium with casein hydrolysate for prod. of diphtheria toxin)

(CASEIN,

hydrolysate, in semisynthetic medium for prod. of diphtheria toxin)

RYBICKA, I.

EXCERPTA MEDICA Sec.4 Vol.10/4 Microbiology Apr 57

958. RYBICKA I. Państwowy Zakł. Hig., Warszawa. *Powstawanie antytoksyny u świń morskich uodpornianych anatoksyną błoniczą przygotowaną z podłoży półsyntetycznych (hydrolizat kazeiny). Production of anti-toxin in guinea-pigs immunized by diphtheria anatoxin from semi-synthetic media (casein hydrolysate) MED.

DOSW. MIKROBIOL. 1956. 8/3 (335-344) Graphs 2 Tables 3

In order to obtain preparations as devoid as possible of sensitizing substances, diphtheria toxin was obtained from 6-7 days' cultures of PW8 strain on semi-synthetic media with casein hydrolysate. Detoxification was performed by addition of 0.4-0.5% of formaldehyde, the preparations being left for 30 days at 37° C. The immunizing effect was estimated on guinea-pigs, the resistance on toxin and antitoxin level being tested. The results were at least as good as those with toxoid preparations from Linggood medium.

Milgrom - Zabrze-Rokitnica

EXCERPTA MEDICA Sec.4 Vol.11/5 Microbiology, etc. May 1958

Rybicka, I.

Scv-

1149. THE INFLUENCE OF PENICILLIN ON DIPHTHERIA TOXIN PRODUCTION
BY STRAIN PW8 - Wpływ penicyliny na wytwarzanie toksyny przez maczu-
gowca błonicy (szczep PW8) - Rybicka I. Zakl. Badania Surowic i Szczepionek PZH, Warszawa - MED. DOSW. MIKROBIOL. 1957, 9/3 (219-227)

Tables 2

Addition of small quantities of penicillin, 0.037-0.075 U. (1/4-1/8 bacteriostatic dose), to the culture medium (liquid casein hydrolysate) have caused morphological and biochemical alterations in diphtheria bacillus (strain PW8). Although the growth of the bacilli was less abundant than in control medium without penicillin the yield of toxin was double. This increase was observed in the presence of penicillin only. Probably the inadequate results of penicillin treatment in diphtheria are connected with this ability of the microorganism.

Zablocki - Łódź

RYBICKA, Irena; SPORZYNSKA, Zdzislawa

Determination of the potency of diphtherial anatoxin on white mice. Med. dosw. mikrobiol. 16 no.1:1-12 '64.

1. Z Zakladu Badania Surowic i Szczepionek Państwowego Zakładu Higieny (Kierownik: prof. dr H. Meisel).

RYBICKA, Irena

Sensitivity of the PW8 strain of *Corynebacterium diphtheriae*
to the effect of lysozyme obtained from chicken egg white.
Med. dosw. mikrobiol. 15 no.2:113-124 '63.

1. Z Zakladu Badania Surowic i Szczepionek PZH w Warszawie
Kierownik Zakladu: prof. dr H. Meisel.
(*CORYNEBACTERIUM DIPHTHERIAE*)
(MURAMIDASE) (EGG WHITE)

POLAND

RYBICKA, Irena, Research Office for Sera and Vaccines (Zak-
Tad Badania Surowic i Szczepionek), PZH [Panstwy Zaklad
Higieny, State Institute of Hygiene] in Warsaw (Director:
Prof. Dr. H. NEISEL)

"Susceptibility of the PW8 Strain of Corynebacterium Diph-
theriae to Lysozyme."

Warsaw, Medycyna Doswiadcza i Mikrobiologia, Vol 15, No
2, 63, pp 113-124.

Abstract: [Author's English summary modified] Crystalline
lysozyme did not affect PW8 cells under the same conditions
which produced complete dissolution of *M. lysodeikticus* or
Sarcina lutea. Bacteriocidal effects were obtained at 37°C
were obtained only after prolonged action and high concen-
tration of the lysozyme. 0.1 mg/ml produced no changes;
0.5--2 mg/ml resulted in distinct morphological changes;
and 2mg/ml concentrations were effective both on cells wash-
ed and resuspended in buffer solution, as well as growing
on liquid or solid media. Similar effects were attained on
old and recent *C. diph. gravis*, and old *mitis* and *intermedius*
strains. 5 Polish, 1 Russian, and 15 Western references.

1/1

RYBICKA, Irena: KUDELSKI, Zygmunt

On antihemolytic properties of diphtherial toxins and anatoxins.
Med.dosw.mikrob. 13 no.2:117-125 '61.

1. Z Zakladu Badania Surowic i Szczepionek PZH w Warszawie.

(DIPHTHERIA immunol) (TOXINS AND ANTITOXINS)

RYBICKA, Irena

Filtrable forms of *Corynebacterium diphtheriae*. Postery hig.
med.dosw. 13 no.4:375-431 J1-Ag '59.
(*CORYNEBACTERIUM DIPHTHERIAE*)

L 21495-66 EWP(v)/EWP(k)/EWP(h)/EWP(l)

SOURCE CODE: CZ/0080/65/000/003/0062/0066

ACC NR: AP6010965

AUTHOR: Wergner, Frantisek (Engineer); Sefcik, Jiri (Engineer); Rybicka, Jiri
(Engineer)ORG: Institute of Automation of the Chemical Industry, Prague (Ustav pro automatizaci
chemickeho prumyslu)TITLE: Automatic control of the distribution of gases into several reactors connected
in parallel 47 B

SOURCE: Automatizace, no. 3, 1965, 62-66

TOPIC TAGS: analog computer, automatic control, chemical engineering

ABSTRACT: This article describes the chemical process and presents a derivation of
equations for the process for solution with a combination of two analog computers.
Orig. art. has: 7 figures, 21 formulas, and 2 tables. [JPRS]

SUB CODE: 09, 07 / SUBM DATE: none / ORIG REF: C08 / OTH REF: 002

Card 1/1d/u

UDC 66.07-55

WERGNER, Frantisek, inz.; SEFCIK, Jiri, inz.; RYBICKA, Jiri, inz.

Automatic control of gas distribution into several parallel connected reactors. Automatizace 8 no.3:62-66 Mr '65.

1. Institute of Chemical Industry Automation, Prague.

RYBICKA, Krystyna

Studies on the development of cestode cytology. Wiad. parazyt.
11 no.1:3-15 '65

1. Zaklad Parazytologii Polskiej Akademii Nauk, Warszawa.

RYBICKA, Krystyna

Use of radioactive isotopes in helminthology. Wiadomosci parazyt.,
Warsz. 6 no.5:381-397 '60.

1. Zaklad Parazytologii PAN, Warszawa.
(HELMINTHS)
(RADIOISOTOPES)

RYBICKA, K.

SCIENCE

Periodical: KOSMOS. SERIA A: BIOLOGIA. Vol. 7, no. 3, 1958.

RYBICKA, K. The biological species; a review of articles published in
the Vestnik Leningradskogo Universit'eta. p. 336.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 3, May 1959
Unclass.

RYBICKA, Krystyna

Attempt of a general approach to the embryology of cyclophyllidean cestodes. Acta parasit Pol 12 no.30/39:327-338 '64.

1. Institute of Parasitology of the Polish Academy of Sciences,
Warsaw.

BOZEK, E.; HRYNKIEWICZ, A.Z.; KONIECZNY, Z.; RYBICKA, M.; SZYMczyk, S.

Nuclear g-factor of the 113 keV rotational level in ^{177}Hf .
Acta Physica Pol 21 no.3:177 Mr '62.

1. Institute of Nuclear Physics, Cracow, and Institute
of Physics, Jagiellonian University, Cracow.

P/045/62/021/003/005/005
B137/B102

AUTHORS: Bożek, E., Hrynkiewicz, A. Z., Konieczny, Z., Rybicka, M.,
Szymczyk, S.

TITLE: Nuclear g-factor of the 113-kev rotational level in ^{177}Hf

PERIODICAL: Acta Physica Polonica, v. 21, no. 3, 1962, 307 - 309

TEXT: Two of the following three quantities are suited for calculating the nuclear factors g_R and g_K : (1) the magnetic moment of the ground state, μ_0 ; (2) the magnetic moment of the excited rotational state, μ_e ; (3) the magnetic dipole transition probability between any two rotational states, $B(M1)$. μ_e was measured for the 113-kev excited level using the method of rotation of the angular correlation pattern for a γ - γ cascade. The source, an aqueous $\text{Lu}(\text{NO}_3)_3$ solution, was situated in an external magnetic field of 26300 gauss, perpendicular to the emission plane of the two γ -rays. The ratio of random to true coincidences was below 5 per cent at $18 \cdot 10^{-9}$ sec resolution. The counters detecting 208 and 113-kev γ -rays enclosed the

Card 1/3

P/045/62/021/003/005/005

B137/B102

Nuclear g-factor of ...

angles 135° and 225° . Measurements yielded the values $g = \pm 0.245 \pm 0.032$ and $\mu_e = (1.10 \pm 0.14) \mu_N$. When calculating the nuclear factors from the values $\mu_0 = 0.61 \pm 0.03$ (Speck, see below) of the ground state ($7/2^-$) and $\mu_e = 1.10 \pm 0.14$ of the excited state ($9/2^-$), one obtains $g_R = 0.374 \pm 0.084$ and $g_K = 0.120 \pm 0.030$. From $B(M1)$ and μ_e one obtains $g_R = 0.271 \pm 0.033$ and $g_K = 0.218 \pm 0.034$. As these results are more reasonable, this would seem to indicate that the μ_0 determination was not correct. Bernstein and de Boer determined the nuclear factors from μ_0 and $B(M1)$ to have the values $g_R = 0.215 \pm 0.014$ and $g_K = 0.162 \pm 0.010$. The disagreement in the results is well beyond the limits of error. Professor H. Niewodniczański, Doctor Z. Szymański, Mgr Z. Bochnacki, and Professor B. Mottelson are thanked for interest. There are 7 non-Soviet references. The four most important references to English-language publications read as follows: Bernstein, E. M., de Boer, J., Nuclear Phys., 18, 40 (1960); Hauser, U., Runge, K., Knissel, G., Nuclear Phys., 27, 632 (1961); Manning, G., Rogers, J. D., Carl 2/3

P/045/62/021/003/005/005
B137/B102

Nuclear g-factor of ...

Nuclear Phys., 15, 166 (1960); Speck, D. R., Bull. Amer. Phys. Soc., 1,
282 (1956).

ASSOCIATION: Institute of Nuclear Physics, Cracow. Institute of Physics,
Jagellonian University, Cracow

SUBMITTED: January 24, 1962

Card 3/3

MYSAKOWSKA, Helena; PIETRON, Eugeniusz; SIKORA-ROZINSKA, Maria;
SMAGA, Marta; LITWIN, Barbara; RYBICKA-STRYJECKA, Zofia

Results of antibacterial treatment of pulmonary tuberculosis
in patients with primary resistance to drugs. Pol. tyg. lek.
20 no.19:686-688 10 My '65.

1. Z Katedry Płysjatrii AM w Lublinie (Kierownik: doc. dr.
H. Mysakowska).

KOWALEWSKI, J.; HYBICKA-STRYJECKA, Z.

Case of pulmonary and intestinal strongyleidiasis. Wiedomosci parazyt.,
Warsz. 4 no.5-6:521-522 1958.

1. Z II Klin. Chorob Wewn. A. M. w Lublinie.
(STRONGYLOIDIASIS, case reports,
intestines & lungs (Pol))
(LUNG DISEASES, case reports,
strongyloidiasis, with intestinal invasion (Pol))
(INTESTINES, dis.
strongyloidiasis, with pulm. involvement (Pol))

BARTOSZEWSKI, A.; RYBICKA-STRYJECKA, Z.

Studies on Trichomonas vaginalis in Lublin. Wiadomosci parazyty., Warsz.
4 no.5-6:545; Engl. transl. 545-546 1958.

1. A I Klin. Ginekol.-Polozniczej i II Klin. Chor. Wewn. Ak. Med. w
Lublinie.
(VAGINITIS TRICHOMONAS, epidemiology,
in Poland (Pol))

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410005-6

N'Black, Jersey, mcr inz.

water supply for industrial metal plants. Gaz woda techn. skupit 37
nr. 71230-232 Jl '64.

. Promet, Gliwice.

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410005-6"

RYBICKI J.

Produkcja bekonów (Bacon Production) by J. Rybicki. Reported in New Books (Nowe Kaiaski.) March 1, 1956.

*Kybrick, Z.**Z**452-4**2 May*

27

Regeneration of carbon disulfide during production of cut viscose fibers¹³. Z. Rybicki. *Priemyl Chem.*, 13, 155-9 (1957).—According to K. regeneration of CS₂ from the viscose process can reach 40-60% provided certain small modification in the process and app. for regeneration are made. These modifications are: (1) the regeneration app. should be under a pressure of 2-3 cm. water below the atm. pressure, thus avoiding loss of CS₂ to the atm.; (2) the flow of water through the regeneration app. should not be greater than 2 cu. m./hr., and the acidity of water should not be greater than 15 g. of H₂SO₄ per l.; (3) the water seal of the regeneration app. should be abandoned and instead a cover with a screwed-on gasket applied; (4) the entrance of the ribbon to the app. for submergence in hot water should be as small as possible; (5) some cold water should be introduced with the ribbon before its submergence in hot water, thus reducing an excessive evapn. from the ribbon before its entrance to the proper dehydrating chamber; (6) the regeneration app. should work continuously for 2-3 years, i.e. all the time during the period when the main app. for the viscose process is working (this is possible when as a material of construction porcelain and stoneware instead of hard lead, Fe, or 99.9% Al are used); (7) the condenser for CS₂ should be cooled with water of 0-1° (cold brine below 0° should not be used because water vapors will frost and reduce the heat exchange across the walls of condenser); (8) the above condenser should be over-designed by 3-4 times; (9) the pressure drop in the lines conveying vapors from the CS₂ app. and in the lines conveying uncondensed gases to the exhaust should not be over 1 cm. of water pressure; and (10) the cooling surface should be such that the exhaust gases have a temp. not over 0° (the best material of construction for the cooler and receiver is 99.9% Al).

F. J. Hendel

// / /

RYBICKA, Krystyna

Morphological and cytochemical studies on the development of the cestode Diorchis ransomi Schultz 1940. Acta parasit Pol 9 no.22/30: 279-304 '61.

1. Laboratory of General Parasitology, Department of Parasitology, Polish Academy of Sciences. Head of Department Prof., dr. Witold Stefanski. Head of Laboratory: Prof., dr. Włodzimierz Michałłow.

RYBICKA, Krystyna

Embryonic development of *Moniezia expansa* (Rud. 1810) (Cyclophyllidae, Anoplocephalidae). *Acta parasit Pol* 12 no. 19: 313-326 '64.

RYBICKA, Krystyna

Result of the study of parasitic fauna of small mammals (Rodentia and Insectivora) in the Kampinos Forest. Wiadomosci parazyt., Warsz. 4 no.5-6:707-708; Engl. transl. 709. 1958.

1. Z Zakladu Parazytologii PAN w Warszawie.
(HELMINTH INFECTIONS,
in small wild mammals (Pol))

RYBICKA, Krystyna

Discussion on the work of Szulc and Dawtian. Problem of specificity of the host-parasite system. Wiadomosci parazyt., Warsz. 2 no.6:367-372 1956.

1. Z Zakladu Parazytolodii Polskiej Akademii Nauk w Warszawie.

(PARASITIC DISEASES, physiology,
specificity of relationship between host & parasite (Pol))

RYBICKA, Krystyna

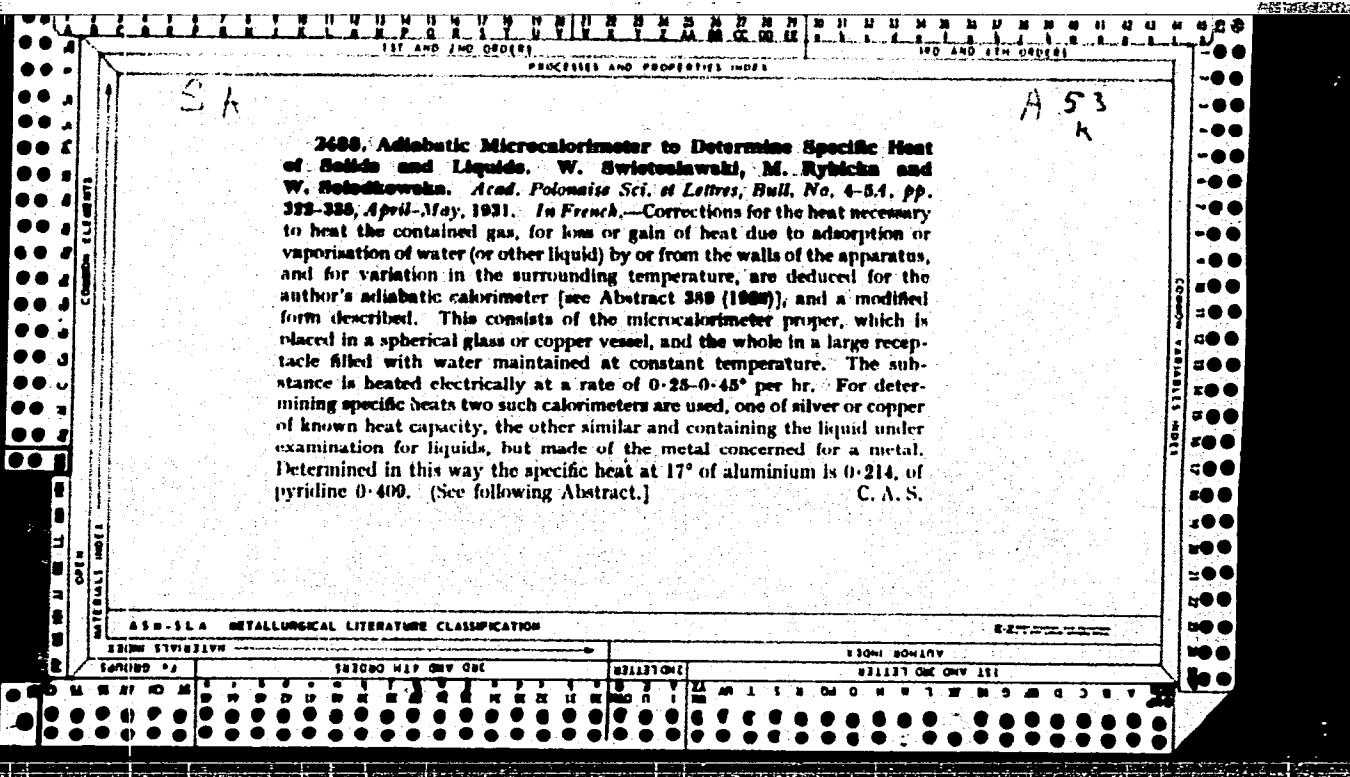
Tapeworms in birds (excluding Anseriformes) of the lake Druzno;
preliminary note. Wiadomosci parazyt., Warsz. 2 no.5:299-300
1956.

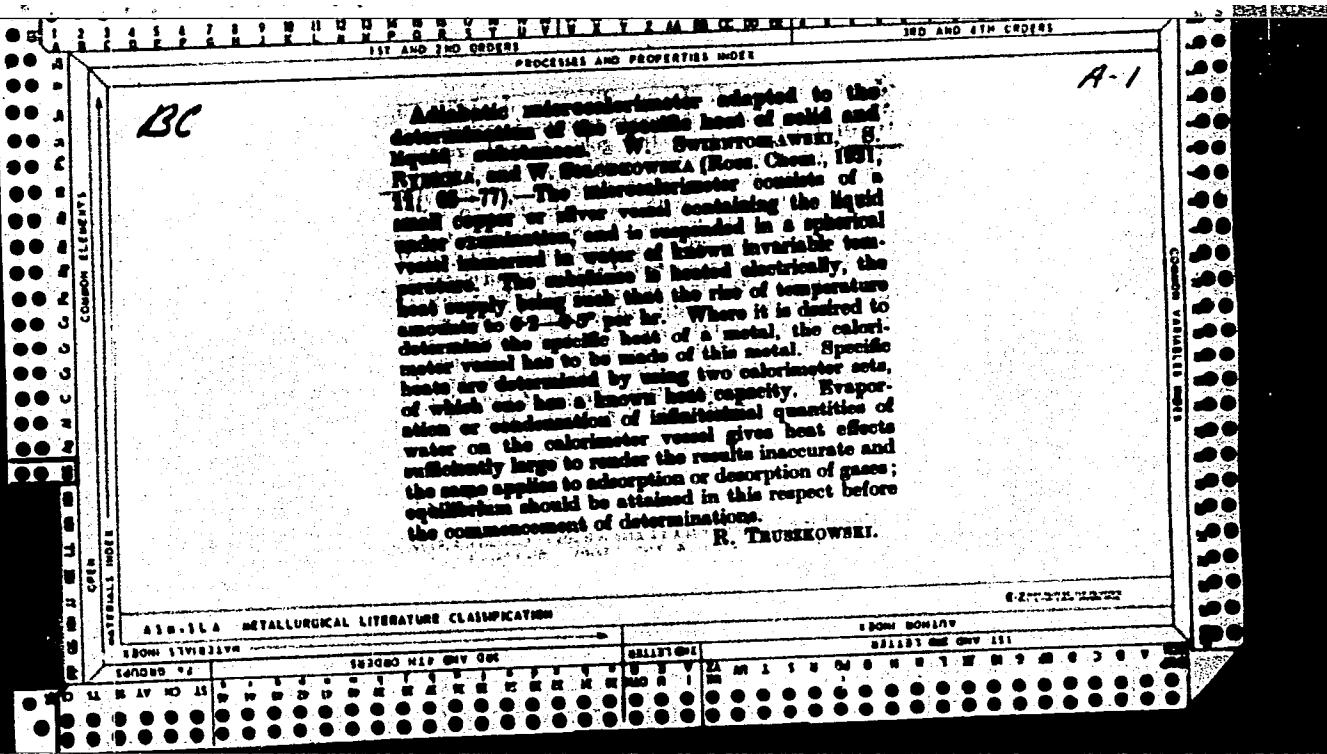
1. Z Zakladu Parazytologii Polskiej Akademii Nauk w Warszawie.
(TAPEWORM INFECTION,
in birds in Poland (Pol))
(BIRDS, diseases,
tapeworm infect. in Poland (Pol))

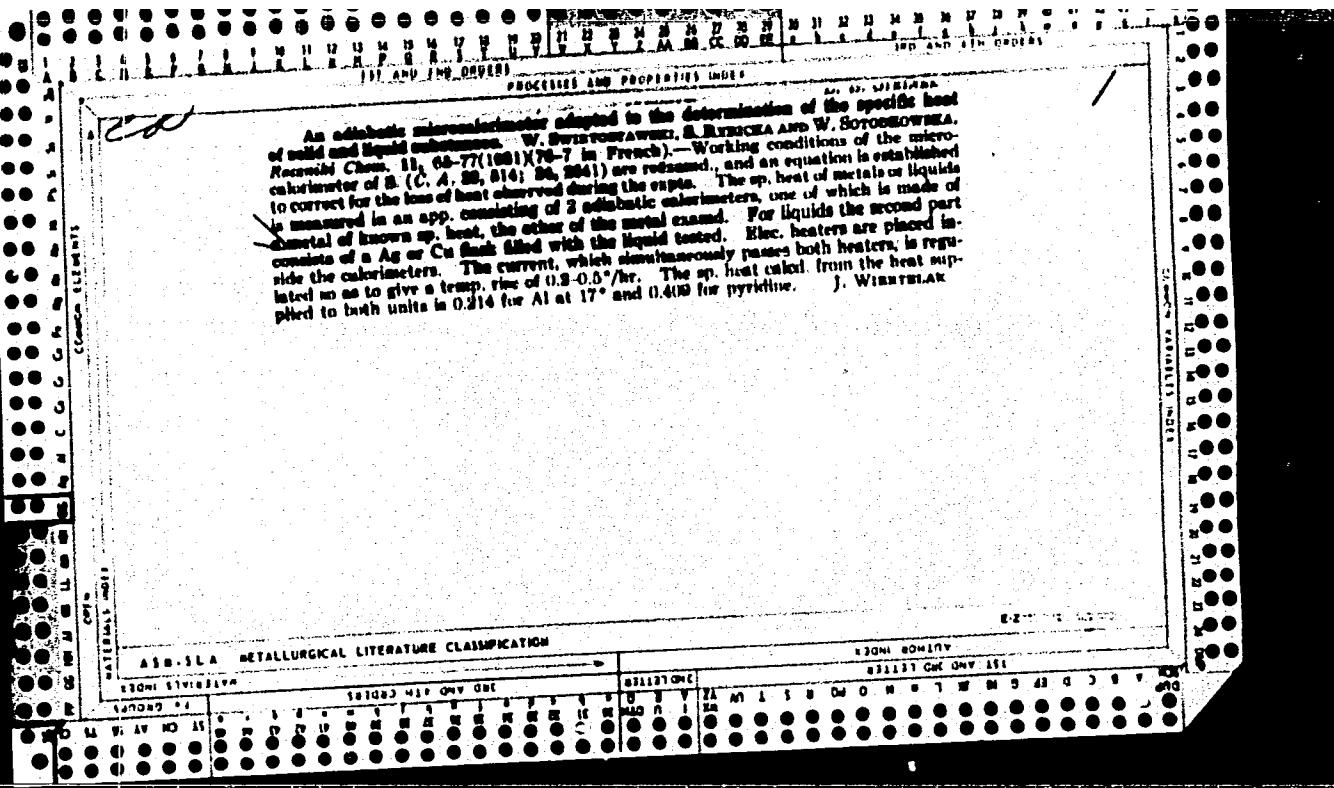
RYBICKA, Krystyna (Warszawa)

Tapeworms in birds (exclusive of Anseriformes) in the lake
Druzno. Wiadomosci parazyty., Warsz. 2 nr. 5 Suppl:195-198
1956.

1. Zaklad Parazytologii UW.
(BIRDS, diseases,
tapeworm infect. in aquatic birds (Pol))
(TAPEWORM INFECTION, epidemiology,
in aquatic birds (Pol))







BCZEK, E.; LEBEDEV, N.A.; NIEWODNICZANSKI, H.; OGATA, S.; RYBICKA, M.; STYCZEN, J.

Gamma-gamma directional correlations in ^{146}Eu . Acta physica
Pol. 24 no.1:131-133 Jl'63.

1. Institute of Nuclear Physics, Krakow. 2. Joint Institute for
Nuclear Research, Dubna, USSR (for Lebedev).

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410005-6

BOZEK, E.: HRYNKIEWICZ, A.Z.; KONIECZNA, Z.; OGATA, S.; RYBICKA, M.;
SZYMCZYK, S.

The attenuation of the angular correlation of the ^{181}Ta 133-482
KeV cascade in liquids. Inst fiz jadr report no.155:1-9 Ja '62.

1. Institute of Nuclear Physics, Krakow, of the Polish Academy
of Sciences.

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R001446410005-6"

RYBICKA, Zofia; WISNIEWSKA, Maria, HANZLIK, Janusz

Two cases of intestinal strongyloidosis treated with gentian violet. Wiad. parazyt. 9 no.6:563-565 '63

l. II. Klinika Chorob Wewnetrznych Akademii Medycznej, Lublin.

RYBICKI, Jerzy

Cooling of cupola furnaces in connection with the general
water management in the metal industry enterprises.
Problemy projekt 10 no.4:107-110 Ap '62.

1. Przamet, Gliwice.

P/044/61/000/004/002/002
D001/D101

AUTHOR: Rybicki, J. Captain-pilot

TITLE: Taking photographs of the ground from two or more aircraft

PERIODICAL: Wojskowy przegląd lotniczy, no. 4, 1961, 35-42

TEXT: In this article the author discusses the rules which must be followed in order to obtain a series of photographs giving a continuous composite picture of the earth's surface. Taking photographs of the ground from two or more aircraft simultaneously, permits coverage of large areas in a very short time. There are two known methods of taking aerial photographs: individual alignment photographs and individual plane photographs covering two or more alignments. The former method was abandoned about 1952 in favor of the latter one. With cameras of 21 cm focal length photographs can be taken from 300 - 1,200 m altitudes, and with cameras of 40 cm focal length from 550 - 2,000 m altitudes. For accurate covering

Card 1/2

Taking photographs ...

P/044/61/000/004/002/002
D001/D101

of the desired part of the ground it is essential that respective aircraft crews maintain meticulously the predetermined distances between their planes, speed and elevation. Automatic operating cameras are put into operation at a given signal. For calculation of distances between individual planes suitable simple formulas are given as well as information on how a group of three or more aircraft flying in close formation have to fan out in order to take the predetermined task position. There are 5 figures.

Card 2/2

RYBICKI, Jerzy

Observations and conclusions concerning the operation of
pneumatic transport in the casting plant of the Ilmarine
Works in the U.S.S.R. Problemy hut mazyn 13 no.3:94-
96 Mr '65.

1. Prozamet, Gliwice.

23026

P/045/61/020/004/004/004
B133/B215

94,6700

AUTHORS:

Bartke, J., Czachowska, Z., Holynski, R., Rybicki, K.

TITLE:

Some examples of interaction of protons of very high energy
with heavy nuclei of photographic emulsions

PERIODICAL:

Acta Physica Polonica, v. 20, no. 4, 1961, 331-339

TEXT: Three stars produced in collisions with nuclei of a photographic emulsion are described. Although they were probably produced in collisions of nucleons with heavy nuclei, they show double maximum angular distributions in contradiction with the hydrodynamic model. Star I: 26 + 47p; star II: 18 + 41p; and star III: 15 + 78p. Stars I and II have been found in a stack of Ilford G5 emulsions irradiated in the Po valley in 1957, and star III was found in an NIKFI-R emulsion stack irradiated near Moscow in 1958. Target diagrams at distances of 600, 1000, and 1400 from the primary interaction enabled the authors to distinguish between the tracks from the secondary interaction and those from the primary event. The angles between the tracks of all primary particles and the star axis were measured. From these angles, the Lorentz factor of the system can

Card 1/6

Card 2/6

0.71

23026

P/045/61/C20/004/004/004
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Some examples of interaction of ...

All differential angular distributions show strong anisotropy and two maxima which corresponds to a plateau in the integral distribution, as may be seen from Fig. 2a. The angular distributions of gray and black tracks do not deviate significantly from the isotropic distribution. Feinberg (Feinberg, E. L., Uspekhi fiz. Nauk, 70, 333, (1960). (Presented also at the Moscow and Kiev conferences)) has expressed the opinion that there are two types of nucleon-nucleon collisions, namely, head-on collisions and peripheral collisions. The hydrodynamical model can be applied only to the first type which is obviously present (Milekhin, G. A., Zh. eksper. teor. Fiz., 35, 1185, (1958)). According to this theory, the differential angular distribution can be well described by a Gaussian curve which is compared in Fig. 4 with the values obtained. In a paper by Gierula et al. (Gierula, J., Miesowicz, M., Zielinski, P., Acta phys. Polon., 19, 119 (1960)) where the three stars under consideration have been referred to as 171K, 168K, and 200K, respectively, a measure has been defined for the deviation predicted by the two-center model. The deviation is calculated in these units and according to the Kolmogorov-Smirnov test which, in the authors' view, cannot be applied here (Smirnow, H., Recueil Mathematique N.S.6, 3 (1959)). It is concluded that the experimental facts do not con-

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firm the hydrodynamical model, whereas a two-center model describes the phenomena very well if the "central" collisions take place in a very small "core". The authors thank Professors M. Mięsowicz and J. Gierula. There are 4 figures, 3 tables, and 11 references: 4 Soviet-bloc and 7 non-Soviet-bloc.

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